



## NXQ™ Flat-Panel Wall Speaker



## Speaker Installation Instructions

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Start your system installation with the "System Installation" section of the User Manual

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All LightSPEED speakers should be installed in accordance with Uniform Building Code, state and local building department requirements.

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### Step 1: Selecting Speaker Mounting Location

One NXQ™ Flat Panel Wall Speaker is designed for rooms less than 1200 sq. ft. and with a ceiling height of 9–12 feet.

Before starting the system installation, speaker placement needs to be decided. This speaker is designed to be centered on the long wall of the classroom (figure 1). Ceiling height must be 9 feet or higher and the speaker should be mounted 6.5–7 feet from the floor (figure 2).

If the classroom is not rectangular, or has a ceiling that is not horizontal (flat), call LightSPEED Technical Support (800.732.8999) to determine optimum speaker placement.

### Step 2: Mounting the Speaker

- A. Measure 6.5–7 feet up on the center of one of the long walls to determine approximate speaker location. The speaker comes with standard picture hangers. Attach the hangers to the wall in the same manner as if hanging a picture. The speaker has a wire on the back that will allow it to hang on the wall. Do not hang the speaker until after "B" is completed.
- B. Locate the coil of speaker wire. To connect the wire to the speaker, press down on the colored terminals on the back of the speaker, insert the wire, and release the tab to hold it in place. Using the end with the two colored wires, insert the black wire into the black-tabbed terminal, and the red wire into the red-tabbed terminal. Hang the speaker on the hanger in the same manner as hanging a picture.

### Step 3: Connect Speakers and Wire to the Receiver/Amplifier

- A. Run the wire by best route from the speaker to the receiver/amplifier. For permanent installations it is usually best to route wire overhead when possible. It is common practice to run speaker wire above suspended ceiling tiles. NOTE: wiring should be installed and secured according to state and local school building codes.
- B. Connect the other end of the speaker wire to the receiver/amplifier in the following manner based on the system type:

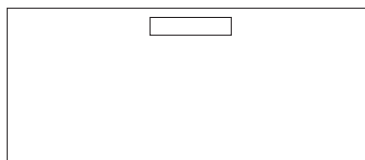
#### 750iR (see figure 3)

- i. Unscrew the red and black caps on the binding post connectors.
- ii. Insert the bare red wire into the red hole that was revealed by unscrewing the red cap and the black wire into the hole on the black connector.
- iii. Screw the caps back down onto the wires until they are secure.
- iv. Make sure the speaker on/off switch next to the jack is switched to the "on" position.

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#### Room Installation: Top View

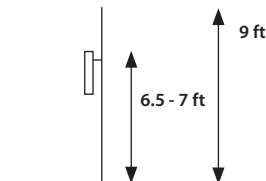
figure 1:



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#### Side View

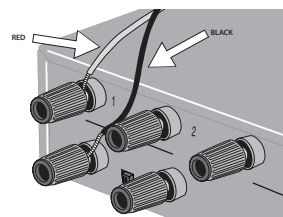
figure 2:



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#### Connection of Speaker Wire to Back of 750iR

figure 3:





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### 780iR (see figure 4)

- i. Insert the 1/4" plug into the SPEAKER OUTPUT 1 jack on the back of the receiver/amplifier.
  - ii. The speaker volume knob should be left at the 12:00 position for most applications.
  - iii. Make sure the corresponding speaker on/off switch on the front panel is set to the "on" position.
- C. Speaker wire should be secured to the wall and concealed if desired with wire mold.

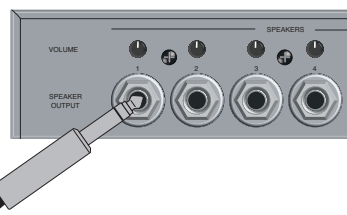
### Step 4: Equalization

- A. Each receiver/amplifier includes an 8-band equalizer that allows users to fine-tune their classroom based on different room characteristics. Figure 5 shows the factory recommended settings for the NXQ speaker. Since all rooms are different, this is only meant as a starting point and may require some adjustment.
- B. The ideal sound is a crisp, clear sound with no feedback. Volume levels should be set to a point you can barely hear your own voice. The goal is to try to replicate the sound of your voice as if the child is sitting directly in front of you, not to amplify your voice at high volumes. Because of the classroom size and constant proximity to the speaker, the system can product feedback (squealing) if the volume level is set too high.
- C. Return to "Step 4: Receiver/amplifier" of the install section of the user manual to complete the remaining steps of the system installation.

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### Connection of Speaker Wire to Back of 780iR

figure 4:



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### Factory Recommended EQ Settings

figure 5:

